

# Notice of Allowability

Application No.

10/823,039

Examiner

Edward F. Landrum

Applicant(s)

SHUHUA, SANG

Art Unit

3724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's remarks filed 2/27/2007.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gunther Hanke on 4/4/2007.

The application has been amended as follows:

In line 11 of claim 21, "a" has been removed from the phrase "said a blade receiving slot". In line 12 of claim 21, "connecting" has been replaced with "connected", and in the same line the term "is" has been added between the words "surface" and "disposed".

### ***Allowable Subject Matter***

2. Claims 1-21 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Claims 1 and 21 are allowable for defining a blade clamping device comprising: a cylindrical rotatable sleeve with a proximal end having an aperture for a blade; a rotatable member mounted coaxially within the cylindrical rotatable sleeve and having a proximal end; a blade carrier mounted within the cylindrical rotatable sleeve and having a proximal end with a blade receiving slot and a distal end; an output shaft mounted to the distal end of the blade carrier; a torsion spring; a guide groove radially and axially

Art Unit: 3724

extending from an exterior of the blade carrier and communicating with the blade receiving slot; a locking member pivotally mounted in the guide groove on a pin; and a spiral surface disposed at the proximal end of the rotatable member, wherein the cylindrical rotatable sleeve is manipulatable rotationally between clamping and non-clamping positions where in the non-clamping position the aperture of the cylindrical rotatable sleeve is aligned with the blade receiving slot of the blade carrier, and wherefrom the cylindrical rotatable sleeve is biased back to a clamping configuration where the aperture is not aligned with the blade receiving slot which causes the proximal end of the cylindrical rotatable sleeve to engage the blade and the spiral surface of the rotatable member positively engages a curved surface of the locking member giving the locking member a tendency to rotate about the pin thereby causing the locking member to positively engage the blade in the blade carrier.

Kramer et al (U.S Patent No. 6,725,548), hereinafter Kramer, teaches a blade clamping device comprising (see Figure 1): a rotatable sleeve (59) with a hole for a blade; a rotatable member (56) mounted coaxially with the rotatable sleeve (59); a blade carrier (60 and 58) with a blade receiving slot (62); an output shaft (44) coupled to the distal end of the blade carrier (60 and 58); a torsion spring (54) for biasing the clamping device to an engaged position (Col. 4, lines 36-39); a guide groove (64 and 66) communicating with the blade receiving slot (62); a locking member (50) mounted in the guide groove (64 and 66); a spiral surface (76) disposed at the proximal end of the rotatable member (56) wherein the locking member (50) is moved into the engaged position by the spiral surface (Col. 3, lines 55-58).

Huggins et al (U.S Patent No. 6,533,291) teaches (see Figures 2 and 3) a pivotally attached locking member (78) in a quick-release clamping mechanism that is substantially teardrop-shaped shaped and positionable between a first position (see Figure 3) and a second position (see Figure 2) by the insertion of the tool to be clamped (Col. 5, lines 6-27).

Wright (U.S Patent No. 5,340,129) teaches (see Figures 3 and 6) a rotatable sleeve for a quick release mechanism where the proximal end comes in contact with the blade when the aperture of the rotatable sleeve is in a non-aligned position.

While it is obvious to modify Kramer to incorporate the teachings of Huggins to pivotally connect the locking member it would be improper hindsight to modify Kramer to incorporate the teachings of Wright as the rotatable sleeve of Kramer is not designed to make any contact with the blade, as the blade carrier of Kramer passes entirely through the rotatable sleeve which is unlike the design of the current invention.

Claims 2-20 depend on claim 1 and are therefore considered allowable.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

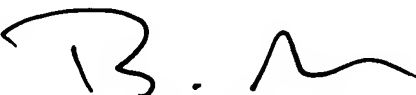
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward F. Landrum whose telephone number is 571-272-5567. The examiner can normally be reached on Monday-Friday 8-4:30.

Art Unit: 3724

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EFL  
4/4/2007



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SUPERVISORY PATENT EXAMINER